HP t610 Flexible Series Thin Clients

Designed for security with breakthrough performance

Our most powerful and flexible thin client series, with more security, more expansion options and a PC-like multimedia experience.

Advanced technology, high-end deployment

The HP t610 Flexible Series Thin Clients deliver a true, PC-like experience for virtualized desktop environments. Built using AMD's Fusion APU technology combining dual core processors[1] with AMD HD 6320[2] graphics, this two-chassis solution delivers a more powerful, flexible user experience. The HP t610 and HP t610 PLUS feature DirectX 11 graphics support, DDR3-1600 RAM (dual slots) with up to 4 GB of capacity[7], and AMD A55E Chipset with DVI-I and DisplayPort connectors for exceptional thin client performance.

A flexible alternative to the PC

One solution in a two-form factor. The sleek HP t610 and HP t610 PLUS (larger chassis with expansion card bay and additional legacy ports) provide thermal-protection with new flexibility options for your business. Connect a variety of peripherals with 2 USB 3.0 ports (rear), 4 USB 2.0 ports and legacy ports. Use the standard Gigabit Ethernet or built-in Wi-Fi[3] option with dual, internal antennas. Extend and expand from simple memory upgrades to solid-state secondary storage options and half-height PCI Express cards in the HP t610 PLUS chassis expansion slot.

Exceptional security

Preloaded with HP's TPM Chip built-in security feature, NIST-compliant BIOS and optional dual Wi-Fi[3] internal antennas, the HP t610 Flexible Series Thin Clients bring security features usually found only on PCs so that customers' network-access security concerns can be addressed.

Simple Network Management, Smart Performance

HP Thin Clients provide easy setup and management throughout the product lifecycle, at no additional charge. HP Easy Tools is a simple, wizard-based console that reduces the configuration process to just a few minutes and few clicks of the mouse. HP Device Manager dramatically simplifies deployment, task automation, compliance management and policy-based security management so you can control up to thousands of Thin Client devices with ease.

HP Thin Clients provide an improved end-user performance backed by the industry-standard in reliability and design. The HP t610 is built with HP Thermal Protection, which provides active thermal management to reduce data-loss from thermal shutdown.

Eco-highlights

The HP t610 Flexible Series Thin Clients are designed with the environment in mind.

- BFR/PVC-Free[4]
- ENERGY STAR® qualified
- EPEAT® Gold registered[5]
- Post-Consumer Recycled Plastics > 20% (excluding PCB)

HP service and dependability

Create a thin computing solution that improves your IT experience with easy maintenance. With HP t610 Flexible Series Thin Clients, you can select from a range of HP Care Pack[6] Services for support beyond standard warranties.

HP t610 Flexible Series Thin Clients

HARDWARE SPECIFICATIONS

Operating Systems	Preinstalled with HP ThinPro, HP Smart Zero Client Service, Microsoft® Windows® Embedded Standard 7 or Microsoft® Windows® Embedded Standard 2009 depending on configuration	
Processor[1]	AMD 64-bit Dual-Core T56N APU with Radeon HD 6320[2] Graphics (1.65 GHz, 1 MB L2 cache)	
System memory[8]	2 GB DDR3 1600 MHz standard (expandable up to 4 GB)	
Flash memory[7]	1 GB for configurations using HP Thin Pro or HP Smart Client Service. 2 GB for configurations using Microsoft® Windows® Embedded Standard 2009 4 GB for configurations using Microsoft® Windows® Embedded Standard 7[7]	
Graphics	AMD Radeon HD 6320[2] graphics. AMD FirePro™ 2270 Multi-View Professional Graphics dual-head graphics card (for up to four digital monitor output) available as factory-installed option on PLUS models only.	
Monitor support	1 x DVI-I with DVI-to-VGA adapter included in packaging 1 x DisplayPort 1.1a (with optional quad-graphics configurations: 3 x DVI-I + 1 x DisplayPort 1.1a)	
Audio	Internal amplified speaker, 1/8-inch mini jack out, full 16-bit stereo, 44kHz sample rate, 1/8-inch mini jack microphone in	
Communications[3]	10/100/1000 Gigabit Ethernet (actual speeds may vary) 802.11 a/b/g/n Wi-Fi (certain models)	
Ports and connectors	Standard model: 4 USB 2.0 (2 front/2 rear), 2 USB 3.0 (rear),1 DVI-I, 1 DisplayPort, 2 PS/2, 1 serial, 1 RJ-45 PLUS model: 4 USB 2.0 (2 front/2 rear), 2 USB 3.0 (rear),1 DVI-I, 1 DisplayPort, 2 PS/2, 2 serial, 1 parallel, 1 RJ-45, 1 half-height PCIe x4 card slot	
Input devices	Standard keyboard and 2-button optical scroll mouse included (USB or PS/2)	
Power	Standard chassis: 65W worldwide auto-sensing 100-240 VAC 50-60Hz surge-tolerant power supply PLUS chassis: 85W worldwide auto-sensing 100-240 VAC 50-60Hz surge-tolerant power supply	
Environmental	Energy Star® qualified and EPEAT® Gold registered where applicable/supported. See http://www.epeat.net for registration status by country.	
Dimensions (WxDxH)	Standard chassis (vertical orientation) Without stand: 8.7x1.6x9.4 in (22x4x24 cm) With stand: 8.7x1.6x9.9 in (22x4x25.1 cm)	PLUS chassis (vertical orientation) Without stand: 8.7x2.6x9.4 in (22x6.5x24cm) With stand: 8.7x2.6x9.9 in (22x6.5x25.1 cm)
Weight	Standard chassis (vertical orientation) Without stand: 3.285 lbs (1.49 kg) With stand: 3.417 lbs (1.55 kg)	PLUS chassis (vertical orientation) Without stand: 4.365 lbs (1.98 kg) With stand: 4.497 (2.04 kg)
Warranty	Limited three-year hardware warranty	

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SOFTWARE SPECIFICATIONS

SPECIFICATIONS	Windows Embedded Standard 7	Windows Embedded Standard 2009	HP ThinPro	HP Smart Zero Service
Client Protocol Support				
Citrix ICA HDX MediaStream	•	•	•	•
VMware View 5.0 PCoIP RDP	• •	• •	•	•
Microsoft RDP/RFX	RDP 7.1 / RFX	RDP 7.0	rdesktop 1.6	rdesktop 1.6
VDI brokers	•	•	•	•
HP Remote Graphics Software	•			
Applications				
HP TeemTalk Terminal Emulation	•	•	•	
Local browser	Full Internet Explorer		Firefox Web Browser	
Media player	•	•		
PDF Reader	Adobe Acrobat Add-on		•	
ThinPrint .print client (TCP/IP)	Available directly from vendor		•	
Terminal emulation	•	•	•	
X Windows (X11R6)			•	
Java Virtual Machine	Add-on			
API compatibility	Win32		Ubuntu Linux	
Security				
File protection	Enhanced Write filter or File-based Write Filter		Read only file system	Firmware downloaded at boot
Locked configuration/accounts	•	•	•	Configuration downloaded at boot
Firewall	Microsoft Firewall add-on	Symantec Endpoint Protection		
Smart Card support	•	•	•	•
Management				
HP Device Manager	•	•	•	•
HP Easy Tools	•	•	•	

1. This system requires a separately purchased 64-bit operating system and 64-bit software products to take advantage of the 64-bit processing capabilities of AMD technology. Dual core processing is designed to improve performance of this system. Given the wide range of SW applications available, performance will vary.

2. High-definition (HD) content required for HD playback.

3. Wireless access point and Internet service is required and is not included. Wireless features, performance and support may vary depending on environmental variables such placement, settings and firmware of your access points. Please contact your wireless vendor for support of your wireless environment.

4. HP t610 Flexible Thin Client series is brominated flame retardant and polyvinyl chloride-free (BFR/PVC-free); meeting the industry definition of 'BFR/PVC-free' per the iNEMI Position Statement on "Low Halogen" Electronics. Plastic parts incorporated into the chassis generally contain < 1000 ppm (0.1%) of bromine or chlorine. Printed circuit board and substrate laminates generally contain < 1500 ppm (0.15%) of total bromine and chlorine. Service parts after purchase may not be BFR/PVC-free. External power supply, power cords, keyboard, mouse, and DVI-to-VGA adapter may not be BFR/PVC free.

5. EPEAT® Gold where HP registers commercial display products. See www.epeat.net for registration status in your country.

6. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. HP Care Pack Services extend service contracts beyond the standard warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at www. hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at www.hp.com/hps/carepack.

7. Should not be used with PCIe/PCI Expansion Module. The secondary storage drive is not supported as a primary boot drive for the thin client OS image or in a hardware or software RAID configuration. Remote Management tools may manage content on the secondary storage drive, but cannot be used to install the thin client OS image onto this drive. Additional HP OS Image tools including but not limited to ThinState Capture, RAMDisk Manager, and the write filters will not function or support the secondary storage drive. Page files are not supported in a primary or secondary drive environment.

8. Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows and Linux 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

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